## AIMEE SCHWAB-MCCOY

	EDU	ICATION			Assistant Professor of Statistics
2015	Univer	Statistics sity of Nebraska-Lincoln		<b>♀</b> Lincoln, NE	Program Director: Data Science
2012		ertation: "Beta-Binomial Kriging: A elated Proportions"	An Improved Method for Modeling S	Spatially	Department of Mathematics
2012 		Statistics sity of Nebraska-Lincoln		<b>♀</b> Lincoln, NE	Creighton University
2010			stant Preparation Course at UNL"		Certified RStudio Instructor
2010   2005	Univer	Mathematics sity of Nebraska-Lincoln ors: High distinction		<b>Q</b> Lincoln, NE	ou doi.o.
	<b>5</b>				CONTACT
	ACA	DEMIC APPOINTME	ENTS		Hixson-Lied 545
2020 		tant Professor of Statistics nton University	5	<b>♀</b> Omaha, NE	■ aimeeschwab- mccoy@creighton.edu
2017 2020	<ul><li>Progr</li></ul>	ram Director: Data Science			<b>y</b> AimeeSMcCoy
2019		nton University		<b>♀</b> Omaha, NE	<b>J</b> (402) 280-2478 <b>□</b> aimeeschwab-
2017 		tant Professor of Statistics University		Cincinnati, OH	mccoy.github.io
2015		tant Statistician			
2015   2014		l of Architectural Engineering a	and Construction, University of Ne	ebraska-	RESEARCH
				<b>Q</b> Lincoln, NE	INTERESTS
2015   2010		uate Teaching Assistant tment of Statistics, University of	of Nebraska-Lincoln	<b>Q</b> Lincoln, NE	Statistics and data science curriculum
	₩ PFF	R-REVIEWED ARTI	CLES		and pedagogy
2224				in	Generalized linear mixed models
2021   2020	Introd	luctory Biostatistics Cours			(applications in R)
2020		al of Statistics Education e Schwab-McCoy		♥ Under review	Spatially correlated count data
2020		puting in the Data Science	Curriculum: A Survey of Fac	culty	Statistical consulting
	Journa	al of Statistics Education e Schwab-McCoy, Catherine Bal	• https://doi.org/10.1080/1069189	8.2020.1851159	Made w/ <b>pagedown</b> using Nick Strayer's CV guide github.com/nstrayer/cv.
					Last updated: 2021-01-29.

2020		"Moving Backward: Designing an R Ecosystem for Academic Programs" Use-R 2020!	
I	Note: Virtual conference presentations can be viewed on my YouTube channel		
	1.11	PRESENTATIONS	
2015		"Beta-Binomial Kriging: An Improved Model for Spatial Rates"  Procedia Environmental Sciences  ↑ https://doi.org/10.1016/j.proenv.2015.07.101  • Aimee Schwab, David Marx	
		• Alexander Kolovos, Lynette Smith, Aimee Schwab-McCoy, Sarah Gengler, Hwa-Lung Yu	
2016	•	"Emerging Patterns in Multi-Sourced Data Modeling Uncertainty" Spatial Statistics: Special Issue on Emerging Patterns	
		2016, Berlin Germany.  ♦ https://iase-web.org/documents/papers/rt2016/Schwab.pdf  • Aimee Schwab-McCoy	
2016		"Developing a First-Year Seminar Course in Statistics and Data Science" Promoting understanding of statistics about society. Proceedings of the Roundtable Conference of the International Association of Statistics Education (IASE), July 2016. Rodin Cormany	
		• Aimee Schwab-McCoy	
2017	•	"Life on an Island: Using Peer Consulting in Applied Statistics Courses" CHANCE: Vol. 30, Special Issue on Climate Change	
		• Aimee Schwab-McCoy	
2018	•	"Bringing Mainstream Media into the Quantitative Literacy Classroom" Shifting Contexts, Stable Core: Advancing Quantitative Literacy in Higher Education	
		Reo J. F. Jones, Margaret M. Hansen, Mahmoud Kaddoura, Aimee Schwab-McCoy, Kirsten Tocchini	
2018		"The incidence of nursing students' perceived stress and burnout levels at a private university in California"  Journal of Nursing Education ♦ https://doi.org/10.5430/jnep.v8n10p138	
		Journal of Statistics Education  ◆ https://doi.org/10.1080/10691898.2019.1687369  • Aimee Schwab-McCoy	
2019	•	"The State of Statistics Education Research in Client Disciplines: Themes and Trends Across the University"	
		• Patricia Soto, India Claflin, Alyssa Bursott, Aimee Schwab-McCoy, and Jason Bartz	
		secondary structure elements"  Journal of Biomolecular Structure and Dynamics	
2019		"Cellular prion protein gene polymorphisms linked to differential scrapie susceptibility correlate with distinct residue connectivity between	

• Aimee Schwab-McCoy

2020		"Is a Consensus Curriculum on the Horizon?" UC Berkeley Workshop on Data Science Education  • Aimee Schwab-McCoy, Catherine Baker, and Rebecca Gasper  • COVID-19
2020	•	"Data Science in 2020: Computing, Curricula, and Challenges for the Next
		10 Years"
		Symposium on Data Science and Statistics Remote (COVID-19)
		Aimee Schwab-McCoy, Catherine Baker, and Rebecca Gasper
2020		"Subsemble Estimation for Spatial Count Data"
		Conference on Statistical Practice Sacramento, CA
		Aimee Schwab-McCoy, Mark May
2019		"Toward Interpretable Machine Learning"
		Omaha Women in Machine Learning and Data Science (Invited)
		Aimee Schwab-McCoy
2019	•	"Pre-Conceptions of Statistical Inference in Biostatistics" University of Nebraska Medical Center Department Colloquium (Invited)
		• Aimee Schwab-McCoy
2019		"Pre-Conceptions of Statistical Inference in Biostatistics"  Joint Statistical Meetings
		Joint Statistical Meetings   ◆ Denver, CO  • Aimee Schwab-McCoy
		,
2019		"Applications of Subsemble Estimation in Multivariate Spatial Models"
		Joint Statistical Meetings   ◆ Denver, CO  • Mark May, Aimee Schwab-McCoy
		Walk May, Allilee Schwab-McCoy
2019		"Pre-Conceptions of Statistical Inference in Biostatistics"
		US Conference on Teaching Statistics
		Aimee Schwab-McCoy
2018		"Statistics Education Across the University: A Systematic Review"
		Joint Statistical Meetings   ♥ Vancouver, BC, Canada
		Aimee Schwab-McCoy
2018		"Spatial Simulation and Estimation of Generalized Linear Mixed Models
20.0		with Non-Normal Data"
		BERD Big Data Methodology Workshop
		Lynette Smith, Aimee Schwab-McCoy, David Marx
2017	•	"Data-Focused Activities and Lessons in Seminar-Style Introductory
2017		Courses"
		US Conference on Teaching Statistics   ♥ State College, PA
		Aimee Schwab-McCoy, Ming-Wen An Wissman, Adam Molnar
2018	•	"Life in the Data Deluge: A First-Year Seminar on the Implications of Data
		Science for Daily Life"
		Joint Mathematics Meetings   ♥ San Diego, CA
		Aimee Schwab-McCoy

2016	•	"Developing a First-Year Seminar Course in Statistics and Data Science"  IASE Roundtable Conference (Invited)  ◆ Berlin, Germany  • Aimee Schwab-McCoy
2015		"Statistical Consulting: Making Connections Across the Curriculum" US Conference on Teaching Statistics ♀ State College, PA • Aimee Schwab, Pamela Fellers
2016		"Peer Consulting in Undergraduate Statistics Courses"  Joint Mathematics Meetings  ◆ Seattle, WA  • Aimee Schwab-McCoy
2015		"Beta-Binomial Kriging: An Alternative Model for Spatial Rates"  Joint Statistical Meetings   ◆ Seattle, WA  • Aimee Schwab, David Marx
2015		"Beta-Binomial Kriging: An Alternative Model for Spatial Rates"  Spatial Statistics 2015: Emerging Patterns  ◆ Avignon, France  • Aimee Schwab, David Marx
2014		"Spatial Simulation and Estimation of Generalized Linear Mixed Models with Non-Normal Data"  METMA-GRASPA Joint Meeting
2014	•	"Using the Island to Develop Consulting Skills"  Joint Statistical Meetings  ◆ Aimee Schwab
2014	•	"Developing New Statistics Instructors and Student Leaders Through
		Peer Mentoring"  CAUSE Webinar  • Erin Blankenship, Aimee Schwab
2013	•	"Facebook Friend Data: Analyzing Non-Random Samples in the
		Introductory Course"  Joint Statistical Meetings  • Aimee Schwab    Montreal, Canada  • Aimee Schwab
2013	•	"Using StatCrunch Friend Data to Illustrate Consequences of a Non-
		Random Sample"  US Conference on Teaching Statistics  ◆ Aimee Schwab  PRaleigh, NC
		GRANTS
2020	•	"Nebraska Institute in Human-Powered AI for Bioimaging" National Science Foundation (NSF 20-503)

2019	•	"Nebraska Center for Modeling, Analysis, Prediction, and Imaging of Data"
		Nebraska EPSCoR RII Pre-Proposal
2019	•	"MAPping Data Science: Establishing an Institute for Meaningful Assessment Practices in Data Science" National Science Foundation (NSF 19-549)
		PI: Aimee Schwab-McCoy; Co-PIs: Catherine Baker, Rebcca Gasper
2019	•	"Applications of Subsemble Estimation in Multivariate Spatial Models" Creighton Haddix President's Faculty Research Fund Amount: \$5,000 (Awarded)
		PI: Aimee Schwab-McCoy
2019		"Faculty Development Grant: Introduction to Data Science"  CURAS Certificate in Research and Scholarship  ◆ Amount: \$2,000 (Awarded)  ◆ PI: Aimee Schwab-McCoy
2019	•	"Faculty Development Grant: Biostatistics"  CURAS Certificate in Research and Scholarship  COR Dia Aires Schweb McCox Andrew Knowner  ◆ Amount: \$4,000 (Awarded)
2018	•	• Co-Pls: Aimee Schwab-McCoy, Andrew Kraemer  "Honey Bees in Peril: An investigation of honey bee viral infection dynamics and modeling-implications for Colony Collapse Disorder"  Haddix Interdisciplinary Project Grant
		• PI: Carol Fassbinder-Orth; Co-Pis: Andrew Kraemer, Aimee Schwab-McCoy
2018	•	"Exploring Student Understanding and Misconceptions of Statistical Inference in Biostatistics"
		Creighton Scholarship of Teaching and Learning Grant   ◆ Amount: \$1,500 (Awarded)  • PI: Aimee Schwab-McCoy
2017	•	"Statistics Education Across the University: A Systematic Review"  Xavier Wheeler Award  ◆ Amount: \$4,000 (Awarded)  ◆ PI: Aimee Schwab-McCoy
2016		"Creating a Xavier pilot program to support career specialization and persistence of female students in disciplines with underrepresentation"  Xavier Women of Excellence Grant  • Amount: \$10,000 (Awarded)
		Co-Pls: Laura Wessels, Dena Morton, Aimee Schwab-McCoy, Heidrun Schmitzer
		UNDERGRADUATE RESEARCH
2021 	•	Modeling social distancing adherence during the COVID-19 pandemic Creighton University   ▼ Student: Josh Eason
2020		Use dimension reductions to create a "mapping" of counties in the US to use in a spatial-temporal model of adherence to social distancing restrictions

## Subsemble estimation applied to spatial GLMMs 2019 Creighton University Student: Mark May Apply subsemble estimation for estimating spatial parameters in a generalized linear mixed model (GLMM). Analysis of high dimensional case-control study 2018 Creighton University Student: Jessica Sandcork • Evaluate resampling-based multiple testing and adaptive Benjamini-Hochberg procedures to test for statistically significant differences between subjects in a small sample case-control study. Used machine learning to adjust for correlation between variables. SERVICE Program Chair; Section on Data Science and Statistics Education 2022 Joint Statistical Meetings · Coordinate invited and contributed talks at the 2022 Joint Statistical Meetings, as well as organize Birds of a Feather sessions (in-person and virtually) for the 2021 JSM **Goldwater Scholarship Committee** 2021 Member **♀** Creighton University 2020 Review and mentor Goldwater scholarship applications **OpenIntro Statistics** 2021 Contributor • openintro.org 2020 · Contribute multiple choice questions developed using the Rexams framework to the OpenIntro Statistics Project Magis Core Curriculum Assessment Committee 2021 Member **♀** Creighton University 2020 • Review assessment rubrics and plans for Magis Core Curriculum **Ratio Studiorum Program** 2020 Creighton University Freshman advisor 2019 Advise first-year students in the Ratio Studiorum Program Reviewer 2020 Journal and conference reviews Various 2017 · Journal of Statistics Education, Spatial Statistics, Journal of University Teaching and Learning, SIGSCE (Special Interest Group on Computer Science Education) Technical Symposium Reviewer 2020 Textbook reviews Various 2018 · Review proposed and revised textbooks: "Foundations of Statistics with R", "The Analysis of Biological Data", "STAT2: Building Models for a World of Data", "Principles of Biostatistics", "Modern Data Science with R" **Clare Boothe Luce Scholarship Award Committee** 2020 Member **♀** Creighton University • Review applications for Clare Boothe Luce tuition and research scholarship

2017   2016		Quantitative Reasoning Committee  Member  ◆ Xavier University  • Review and approve course proposals for Quantitative Reasoning Flag in core curriculum
2017   2016	•	Hiring Committee Member  ◆ Review and interview candidates for open positions in statistics
	Õ	AWARDS
2019	•	Best Young Investigator Award Winner
2014		Best Contributed Paper Award - JSM Winner
2013	•	Outstanding Graduate Teaching Assistant Award (UNL) Honorable Mention ♥ University of Nebraska-Lincoln